

Bioinformatics Minor Curriculum Chart 2010-2011

Math

MATH 19A*
Calculus

MATH 19B*
Calculus

OR

MATH 11A
Calculus

MATH 11B
Calculus

OR

MATH 20A
Honors Calculus

MATH 20B
Honors Calculus

AMS 131
Probability Theory

OR

CMPE 107**
Stochastic

Programming

CMPS 12A/L
Intro to
Programming

OR

CMPS 5C
Intro to Prog C

OR

CMPS 5J
Intro to Prog
Java

OR

CMPS 5P
Intro to Prog
Python

OR

CMPE 12/L
Comp. Systems
and Assembly
Language

AND

CMPE 13/L
Comp. Systems
And C
Programming

BME 160/L
Program. for Bio.

OR

CMPS 12B/M
Data Structures

Bioinformatics

BME 80G
Bioethics

OR

PHIL 145*
Genetics Ethics

OR

BME 247
Stem Cell
Research: Ethical
Issues

BME 110
Computational Biology Tools

ONE of:

AMS 132
Statistical Inference

OR

BIOC 100B
Biochemistry

OR

**any upper division or
graduate BME course**

Science

CHEM 1A
General Chemistry

CHEM 1B/M
General Chemistry

CHEM 1C/N
General Chemistry

CHEM 112A
Org. Chem

OR

AND

† **CHEM 108A**
Organic
Chemistry

† **CHEM 112B**
Org. Chem

(with the grade B or above)

BIOL 20A
Cell & Molecular Biology

ONE of the following:

BIOE 20B
Development and Physiology

BIOL 105
Genetics

BIOL 110
Cell Biology

BIOL 115
Eukaryotic Molecular Biology

BIOL 119
Microbiology

BIOC 100A[†] or BIOL 100
Biochemistry

* Math 19A & 19B preferred

** additional prerequisite courses
required

† Additional prerequisite of
CHEM 108B or CHEM 112C
waived if grade in prior course is
B or above

BIOINFORMATICS MINOR
DEGREE CURRICULUM

Fall ____	Winter ____	Spring ____	Summer ____

Fall ____	Winter ____	Spring ____	Summer ____

Fall ____	Winter ____	Spring ____	Summer ____

Fall ____	Winter ____	Spring ____	Summer ____

Student Name _____

Student ID _____

Staff Advisor's Approval: _____ Date: _____